QC ABSTRACT

E OF WORK: Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 of Yelahanka sub Division

	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
	RCC(M20)	Compressive Strength(7days and 28days)	5 sets /50-100 cum	78.76	10	10

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CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
	MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
Mortar Sand	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
	Compacted Bulk Density	One Test		1	1
	Loose Bulk Density	One Test		1	1
	SIEVE ANALYSIS	One Test		1	1
Plaster Sand	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
	SIEVE ANALYSIS	One Test		1	1
Chain Link Fencing	Average Thickness	One Test		1	1
	Dia of line wire	One Test		1	1
	Mesh size	One Test		1	1
	Nominal dia of mesh wire	One Test		1	1
	Bend Test	One Test		1	1
M.S Block Pipe	Yeild Stress	One Test		1	1
	Tensile Strength	One Test		1	1
	Elongation Percentage	One Test		1	1
M.S. Rectangular pole	Weight/Meter	One Test		1	1
	Yeild stress	One Test		1	1
	Tensile Strength	One Test		1	1
	Elongation Percentage	One Test		1	1
	Bend Test	One Test		1	1
Structural Steel (Column - ISMB 200)	Weight/Meter	One Test		1	1
	Thickness	One Test		1	1
	Yeild Stress	One Test		1	1
	Tensile Strength	One Test		1	1
	Elongation Percentage	One Test		1	1
	Bend Test	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-05-04** **Date: 19-01-23**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	16-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification . IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.2	–
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-05-04** **Date: 14-02-23**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	16-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	17-01-23
Environmental Conditions during Test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-05-04** **Date: 19-01-23**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	16-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-04-05-04 **Date: 19-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.21	_

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-05-04** **Date: 18-01-23**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	16-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-04-05-04

Date: 18-01-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

b ID	:	**CP-2023-04-05-04**
ject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division **Date: 18-01-23**
ncy	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
tomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
e of Receipt	:	16-01-23
ple Type	:	Fine Aggregate
rence to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
of test	:	16-01-23
weight taken	:	1000 grams

Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
					Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
10 mm	0	0	0.0	100.0	100	100	100	100
4.75 mm	44	44	4.4	95.6	90-100	90-100	90-100	95-100
2.36 mm	55	99	9.9	90.1	60-95	75-100	85-100	95-100
1.18 mm	239	338	33.8	66.2	30-70	55-90	75-100	90-100
600 micron	205	543	54.3	45.7	15-34	35-59	60-79	80-100
300 micron	203	746	74.6	25.4	5-20	8-30	12-40	15-50
150 micron	191	937	93.7	6.3	0-10	0-10	0-10	0-15
Pan	63	1000	100.0	0.0	---	---	---	---

:The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

b ID : CP-2023-04-05-04 Date: 18-01-23

YSICAL PROPERTIES

10	Tests	Result	Requirements as per IS 383:2016
	Water Absorption(%)	1.5	–
	Specific Gravity	2.59	–
	Material finer than 75 micron(%)	6.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

e results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 17-03-23

: CP-2023-04-05-04

Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

: M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

er's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Receipt : 13-03-23

Type /Size : CC Kerb Stone/ 450*165*400mm

:e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

test : 13/03/2023

f Kerb : M20

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	77.01	165.51	2.864	4657	95.8	20.6	20.6	25.7
B	77.03	165.49	2.793	4659	102.4	22.0	22.0	27.5
C	77.01	165.50	2.815	4657	98.2	21.1	21.1	26.4

lts obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2023-04-05-04 **Date: 14/02/2023**

t Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

y : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

mer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

f Receipt : 09-02-23

mer ID : Footing Concrete - Basketball Court

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 14/02/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	150.14 X 150.76 X 149.95	22635	8.878	425.5	18.8	18.5
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	151.36 X 150.53 X 149.60	22784	8.746	420.3	18.4	
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	151.36 X 149.23 X 150.41	22587	8.496	409.9	18.1	

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2023-04-05-04

Date: 07/03/2023

ct Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

y : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

mer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

f Receipt : 09-02-23

ner ID : Footing Concrete - Basketball Court

e Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 07/03/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ooting Concrete - Basketball Court	M20	07/02/2023	07/03/2023	150.49 X 149.04 X 150.51	22430	8.151	517.3	23.1	23.2
ooting Concrete - Basketball Court	M20	07/02/2023	07/03/2023	150.97 X 149.43 X 151.18	22560	8.947	511.9	22.7	
ooting Concrete - Basketball Court	M20	07/02/2023	07/03/2023	149.20 X 150.90 X 150.70	22514	8.904	538.1	23.9	

Its obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2023-04-05-04

Date: 14/02/2023

ct Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

cy : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

mer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

of Receipt : 09-02-23

mer ID : Footing Concrete - Basketball Court

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 14/02/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	151.77 X 150.42 X 150.35	22829	8.788	424.8	18.6	18.7
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	149.04 X 151.09 X 149.55	22519	8.424	418.8	18.6	
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	149.15 X 151.09 X 150.61	22536	8.353	424.1	18.8	

sults obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2023-04-05-04

Date: 07/03/2023

ID : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

ject Name : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

ncy

omer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

of Receipt : 09-02-23

omer ID : Footing Concrete - Basketball Court

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 07/03/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Footing Concrete - Basketball Court	M20	07/02/2023	07/03/2023	149.05 X 150.66 X 149.07	22456	8.397	532.1	23.7	23.1
Footing Concrete - Basketball Court	M20	07/02/2023	07/03/2023	149.56 X 151.24 X 149.25	22619	8.320	502.6	22.2	
Footing Concrete - Basketball Court	M20	07/02/2023	07/03/2023	150.64 X 150.58 X 150.32	22683	8.881	530.6	23.4	

: results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2023-04-05-04

Date: 14/02/2023

ID :
ect Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

: M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

ncy :

omer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

: 09-02-23

of Receipt : Footing Concrete - Basketball Court

omer ID : 150X150X150 mm

ple Type /Size : M20 / 7 Days Compressive Strength

ple grade/Age : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

rence to BIS codes :

: 14/02/2023

of test

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	151.21 X 150.84 X 149.70	22809	8.509	425.7	18.7	18.5
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	150.34 X 150.24 X 151.92	22587	8.340	422.1	18.7	
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	151.53 X 149.18 X 151.87	22606	8.886	410.3	18.2	

results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

)	:	CP-2023-04-05-04 **Date: 14/02/2023**
t Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
y	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
mer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
of Receipt	:	09-02-23
mer ID	:	Footing Concrete - Basketball Court
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	14/02/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	151.21 X 150.84 X 149.70	22809	8.509	425.7	18.7	18.5
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	150.34 X 150.24 X 151.92	22587	8.340	422.1	18.7	
Footing Concrete - Basketball Court	M20	07/02/2023	14/02/2023	151.53 X 149.18 X 151.87	22606	8.886	410.3	18.2	

esults obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/03/2023

ID	:	CP-2023-04-05-04
ject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
ency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
stomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
te of Receipt	:	09-02-23
stomer ID	:	Footing Concrete - Basketball Court
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
e of test	:	07/03/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Footing Concrete - Basketball Court	M20	07/02/2023	07/03/2023	150.51 X 151.64 X 149.96	22823	8.795	535.7	23.5	23.0
Footing Concrete - Basketball Court	M20	07/02/2023	07/03/2023	149.46 X 151.53 X 149.84	22648	8.196	504.1	22.3	
Footing Concrete - Basketball Court	M20	07/02/2023	07/03/2023	149.46 X 150.34 X 149.15	22468	8.661	526.1	23.4	

he results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2023-04-05-04 **Date: 27/02/2023**

Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

: M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

r's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Receipt : 22-02-23

r ID : Concrete for Electric Poles - Yelahanka Lake

Type /Size : 150X150X150 mm

rade/Age : M20 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

st : 27/02/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ncrete for Electric les - Yelahanka Lake	M20	20/02/2023	27/02/2023	150.75 X 150.69 X 150.21	22716	8.610	426.7	18.8	18.7
ncrete for Electric les - Yelahanka Lake	M20	20/02/2023	27/02/2023	149.16 X 150.95 X 151.25	22516	8.644	419.8	18.6	
ncrete for Electric les - Yelahanka Lake	M20	20/02/2023	27/02/2023	150.95 X 149.13 X 151.84	22511	8.883	421.6	18.7	

ts obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2023-03-05-08

Date: 20/03/2023

: Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No:01,02,03 and 04 of Yelahanka Sub Division

: M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.18/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

: EE(Project)/Ynk Zone/WO/09/2021-22

: 22-02-23

: Concrete for Electric Poles - Yelahanka Lake

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 20/03/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	20/03/2023	149.65 X 150.40 X 151.17	22507	8.160	529.3	23.5	23.0
Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	20/03/2023	150.74 X 150.01 X 151.30	22613	8.741	503.9	22.3	
Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	20/03/2023	149.12 X 150.67 X 150.77	22469	8.449	519.1	23.1	

results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-05-04 **Date: 27/02/2023**

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 22-02-23

Customer ID : Concrete for Electric Poles - Yelahanka Lake

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	27/02/2023	151.14 X 150.14 X 149.83	22692	8.984	425.6	18.8	18.5
2	Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	27/02/2023	150.80 X 151.26 X 149.45	22810	8.288	425.4	18.7	
3	Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	27/02/2023	149.30 X 149.25 X 150.97	22283	8.711	405.4	18.2	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

h ID	:	CP-2023-04-05-04 **Date: 20/03/2023**
oject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
ency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
stomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
te of Receipt	:	22-02-23
stomer ID	:	Concrete for Electric Poles - Yelahanka Lake
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	20/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	20/03/2023	150.79 X 149.91 X 150.03	22605	8.426	533.4	23.6	23.1
2	Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	20/03/2023	150.36 X 149.64 X 150.25	22499	8.123	495.3	22.0	
3	Concrete for Electric Poles - Yelahanka Lake	M20	20/02/2023	20/03/2023	150.88 X 150.02 X 150.14	22635	8.662	536.9	23.7	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangaiore - 92

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2023-04-05-04 **Date: 03-02-23**

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 31-01-23

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 31-01-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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BBMP, Bangalore - 92

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Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2023-04-05-04 Date: 03-02-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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TEST REPORT FOR PLASTER SAND

Lab ID : **CP-2023-04-05-04** **Date: 04-02-23**

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 31-01-23

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 31-01-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-05-04** **Date: 04-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 14-03-23

Lab ID	:	**CP-2023-04-05-04**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main. JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	10-03-23
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	10-03-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	203	199	16320	31.757	1945.9	1984.4	Not less than 1800Kg/m^3
2	402	199	201	16080	33.626	2091.2		
3	405	201	200	16281	31.196	1916.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2023-04-05-04

Date: 14-04-23

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	201	202	
2	400	202	203	
3	402	203	203	
4	399	201	199	
5	402	200	201	
6	401	202	199	
7	402	202	199	
8	399	201	200	
9	403	202	202	
10	401	200	203	
11	401	200	199	
12	400	200	202	
13	399	202	203	
14	404	202	203	
15	399	201	201	
16	400	203	200	
17	404	203	203	
18	402	202	203	
19	399	200	199	
20	403	203	200	
Average of 20	**401**	**201**	**201**	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Certificate No.: TC-5548

Lab ID : CP-2023-04-05-04

Date: 14-03-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80261	428.7	5.3	5.2
2	400	200	79945	404.7	5.1	
3	402	200	80664	410.6	5.1	
4	399	201	80152	399.7	5.0	
5	402	200	80343	417.8	5.2	
6	400	200	80002	428.9	5.4	
7	402	203	81470	445.6	5.5	
8	403	201	80908	417.5	5.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Certificate No.: TC-5548

TEST RESULTES ON STRUCTURAL STEEL

Lab ID	:	CP-2023-04-05-04 **Date: 17-01-23**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	16-01-23
Type/ Description of Sample*	:	ISMB 200
Reference to BIS codes	:	IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	16-01-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	25.4 Kg /m	–	
2	Yeild Stress	281 N/mm^2	240 N/mm^2	
3	Tensile Strength	450 N/mm^2	410 N/mm^2	
4	Elongation Percentage	18%	Min 15%	
5	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2023-04-05-04** **Date: 13-02-23**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	06-02-23
Sample Type/ Size	:	Ceramic tiles (300X300)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2019, IS 15622:2018
Date of test	:	06-02-23

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	**300**		**300**		**6.05**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.62
2	300	300	6.05	14.2	
3	300	300	6.03	14.7	
4	300	300	6.06	14.8	
5	300	300	6.06	14.6	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	CP-2023-04-05-04 **Date: 04-02-23**
Project Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division
Agency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22
Date of Receipt	:	02-02-23
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	02-02-23

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTES FOR MS RECTANGULAR POLE

ab ID	:	**CP-2023-04-05-04**	**Date: 04-02-23**
roject Name	:	Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division	
gency	:	M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78	
ustomer's Reference	:	EE(Project)/Ynk Zone/WO/09/2021-22	
ate of Receipt	:	02-02-23	
ype of Sample	:	M.S Rectangular Pole(65X65X6)mm	
eference to BIS codes	:	IS:1608-2005(RA 2017), IS 1599-2019.	
ate of testing	:	02-02-23	

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

L.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID : **CP-2023-04-05-04** **Date: 04-02-23**

Project Name : Construction of Sculptures in Parks, Lakes, Circles and Junctions in Ward No.01,02,03 and 04 of Yelahanka Sub Division

Agency : M/s NPR Infratech, (Sri. N Purushotham Raju), SLV Nilaya, No.38/1, Sankranthi Layout, 4th Main, JP Nagar, 7th Phase, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/09/2021-22

Date of Receipt : 02-02-23

Type of Sample : Chain Link Fencing

Reference to BIS codes : IS 2062:2011 (RA 2021)

Date of testing : 02-02-23

TESTS RESULT FOR WIRE MESH		
SL.NO	Description	Result
1	Average Thickness in mm	4.04
2	Dia of linewire in mm	3.14
3	Mesh size in mm	50.01
4	Nominaldia of meshwire in mm	2.52
5	Bend Test	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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